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ABSTRACT

This document contains information on summer academic programs offered to American Indian and Alaska Native junior high and high school students. Included are mathematics and science summer programs offered to high school students by the American Indian Science and Engineering Society at universities in Oklahoma, New Mexico, Wisconsin, Iowa, Montana, California, Wisconsin, and New York. NASA offers apprenticeship opportunities in various states for minority high school students interested in math, science, or engineering. Information is also included on programs sponsored by colleges, research facilities, and Indian organizations in Alabama, Arizona, South Dakota, Colorado, District of Columbia, Illinois, Massachusetts, Michigan, Minnesota, New York, North Carolina, North Dakota, Oklahoma, and Rhode Island. Many programs focus on math and science, help prepare students for college, or offer opportunities to explore career possibilities. Each program listing includes a brief description, application deadline, and contact person. Four additional directories of summer programs are listed. (LP)

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1995 Summer Opportunities for American Indian Students

It may seem like summer is a long way off, but now is the time for your IEA students to begin thinking about the many opportunities available for academic and personal growth. Please make the information listed below available to your students as soon as possible, since some programs have early deadlines and a limited number of spaces. Also, encourage your students to follow-up immediately on any programs that they find interesting.

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National

♦ **American Indian Science & Engineering Society (AISES) Summer Student Academic Programs** are designed for American Indian/Alaska Native students who are interested in math or science and plan to attend college. Program activities include two to six weeks of course work, hands-on learning exercises, training in study skills and writing, research projects, American Indian role models, mentors and guest speakers, field trips, campus orientation and recreation.

DATES	PROGRAM	LOCATION	GRADE LEVEL
June 4 - July 1	Mathematics	Oklahoma State University Stillwater, OK	Entering 12th graders
June 11 - July 1	Mathematics in the Physical Sciences	New Mexico State University Las Cruces, NM	Entering 9th graders
June 17 - July 2	Young Scholars Program	St. Norbert College De Pere, WI	Entering 8th graders
June 18 - July 8	Mathematics in the Life Sciences	University of Iowa Iowa City, IA	Entering 10th graders
June 26 - July 21	Mathematics	Montana State University Bozeman, MT	Entering 10th graders
June 30 - July 8	Math, Engineering and Computer Science	Stanford University Stanford, CA	Entering 11th graders
July 8 - July 22	M3 Summer Science Camp *	St. Norbert College De Pere, WI	Entering 8th graders
July 9 - July 29	Mathematics	Clarkson University Potsdam, NY	Entering 11th graders

** This program is limited to students from the Great Lakes and Southeast.*

Prepared by Indian Education Technical Assistance Center One
ORBIS Associates
1411 K Street, N.W., Suite 700, Washington, D.C. 20005
(800) 621-2998 • (202) 628-4444 • Fax: (202) 628-2241

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Room, board and materials are provided. Students must provide own travel to and from the program site. **Application deadline is February 15, 1995.** Contact AISES PreCollege Department, 1630 30th St., Suite 301, Boulder, CO 80301-1014, (303) 939-0023, FAX (303) 939-8150; Internet: aisespc@spot.colorado.edu.

♦ **NASA Summer High School Apprenticeship Research Program (SHARP) PLUS** is a research-based mentorship for minority high school students interested in math, science or engineering. Participants live on campus and work with researchers/mentors at nearby industrial sites or in research laboratories at the institutions. The eight-week residential program runs from June 19 - August 11; possible program sites are at colleges and universities in Alabama, California, Georgia, Louisiana, Maryland, North Carolina, Texas and Virginia. Applicants must be a citizen or national of the U.S., currently enrolled in 10th or 11th grade, belong to a recognized minority group underrepresented in science and engineering, and have completed at least one semester of algebra and one semester of geometry, and at least one year of biology, chemistry or physics, with a grade of B or better in each course. Room and board, transportation and a stipend are provided. **Application deadline is March 1, 1995.** Contact QEM Network, 1818 N St., N.W., Suite 350, Washington, DC 20036, (202) 659-1818, FAX (202) 659-5408.

Alabama

♦ **Enhancement of Mathematics/Science Competencies of Minority High Schoolers** is a residential program at Stillman College from June 4 - July 11. Held at a historically black college, this program features rigorous training in mathematics and science through daily study sessions. Applicants must be minority sophomores, juniors or seniors in high school, and provide recommendations from a math teacher and a science teacher. The program is free to accepted applicants, with the exception of transportation. **Application deadline is March 31, 1995.** Contact Josephine Washington, Program Director, Stillman College, P.O. Box 1430, Dept. of Biology, Tuscaloosa, AL 35403, (205) 349-4240, ext. 556.

Arizona & South Dakota

♦ **Indian Youth of America Annual Intertribal Youth Camp** provides an opportunity for Indian youth, ages 11-15, from urban and reservation communities to come together to participate in a variety of educational, recreational and cultural activities. This program will be held at Whispering Pines Camp in Prescott, Arizona, July 5-14, 1995; it is also tentatively scheduled for August at Camp Bob Marshall in Custer, South Dakota. The fee is $150 per camper. Contact Paige Gordon, Indian Youth of America, P.O. Box 2786, Sioux City, IA 51106, (712) 252-3230.

Colorado

♦ **Council of Energy Resource Tribes T.R.I.B.E.S. Summer Program** is designed for college-bound, Indian high school graduates interested in pursuing careers in science, business, engineering and related fields. The seven-week program, tentatively scheduled for mid-June to the end of July, includes classroom work, career forums, field trips, cultural events, and college admission and financial aid counseling. Students can also receive up to nine semester hours of transferable college credit. **Application deadline is March 24, 1995.** Contact Darius Smith, Student Services Coordinator, CERT, 1999 Broadway, Suite 2600, Denver, CO 80202-5726, (303) 297-2378, FAX (303) 296-5690.

♦ **Native American Fish and Wildlife Society Environmental Awareness Summer Youth Practicum** is tentatively scheduled for mid-June. The practicum offers American Indian high school students the chance to learn about the environment and promotes interest in natural resource careers. Applications will be available after January 15, 1995. Contact the Native American Fish and Wildlife Society, 750 Burbank St., Broomfield, CO 80020, (303) 466-1725.

♦ **Colorado School of Mines Summer Minority Engineering Training (SUMMET) Program** is a four-week, residential program that focuses on encouraging minority students to attend college and to consider engineering and the sciences as career options. The program will be held June 11 - July 7. The SUMMET curriculum includes trigonometry and calculus, chemistry, geology, electrical engineering, hazardous waste management, hydrology, mining and more. Activities include field trips, sports and social programs. Applicants must be minority students who are sophomores or juniors in high school with a grade point average of 3.0 or better, and have taken advanced math and science courses. This program is free to accepted applicants, with the exception of transportation to and from the university and personal spending money. **Application deadline is April 15, 1995.** Contact SUMMET Program, c/o Connie Casey, Student Activities Office, Colorado School of Mines, Golden, CO 80401, 1-800-446-9488.

District of Columbia

♦ **Smithsonian Institution Intern '95 Program** will be held June 25 - August 5. The six-week internships are designed to enable graduating high school seniors to learn firsthand about a possible career while assisting the work of the Smithsonian. Interns spend approximately 35 hours per week on assignment with a Smithsonian professional, in such diverse fields as art, biology, carpentry, history, library science and photography. The program also offers tours to important Washington, D.C. sites. Interns receive a living allowance of $700; those from outside the Washington metropolitan area also receive housing in a university residence hall and transportation to and from Washington, D.C. Acceptance is based on demonstrated interest in a particular subject or career. **Application deadline is March 17, 1995.** Contact Intern '95, Office of Secondary and Elementary Education, Arts and Industries Bldg., Room 2283, MRC 444, Smithsonian Institution, Washington, DC 20560, (202) 357-3049, TDD (202) 357-1696.

♦ **National Women's Political Caucus Intern Program** has part-time openings throughout the summer for graduating high school seniors interested in women's issues. Interns should have good oral and written communication skills and proficiency in WordPerfect. Applicants must send a resume, one letter of recommendation, a writing sample and a short statement on why they would like to intern. Contact Kay LiCausi, Intern Coordinator, National Women's Political Caucus, 1211 Connecticut Ave., N.W., Suite 425, Washington, DC 20036, (202) 785-1100.

Illinois

♦ **Center for American Archaeology** is a research facility attempting to preserve the vast archaeological record of American Indian occupation of the Illinois River Valley. The Center has full scholarships available for federal or state recognized American Indian students wishing to participate in their summer programs. The **Summer Field School,** a five-week program for high school students, will be held June 5 - July 7. Students will receive training in the method and theory of archaeological field research and participate in site excavations. The **Young Scholars Program in Archaeology and the Natural Sciences** will run from July 10 - August 18 and is

open to high school juniors and seniors. Sponsored by the National Science Foundation, participants will be immersed in all aspects of archaeological research, including cross-disciplinary studies in geology, botany, zoology and biological anthropology. **Tentative application deadline is mid-March.** Contact Harry Murphy, Director of Education, Center for American Archaeology, Box 366, Kampsville, IL 62053, (618) 653-4316.

Massachusetts

♦ **Massachusetts Institute of Technology Minority Introduction to Engineering and Science (MITES) Program** is a residential, pre-college enrichment program that features courses in calculus, physics, chemistry, biochemistry, writing and design. It also includes lectures, field trips, and cultural and recreational activities. The six-week program will be held June 26 - August 4, and is open to minority students who are incoming high school seniors. Applicants must provide PSAT scores, a current transcript, three letters of recommendation and three essays. Partial transportation scholarships are available based upon need. **Application deadline is February 17, 1995.** Contact William Ramsey, Director, MITES Program, MIT, 77 Massachusetts Ave., Room 1-211, Cambridge, MA 02139, (617) 253-8051.

♦ **Northeast Science Enrichment Program** will be held July 9 - August 12 at the University of Massachusetts at Amherst. This five-week, residential program is open to highly motivated minority students who will be entering the 10th grade in the fall, and who live or attend school in New England or upstate New York. The program includes hands-on activities in chemistry, biology, math, computer science, physics and language arts, as well as educational, cultural and recreational field trips. Applicants must demonstrate superior academic ability on transcripts, and provide personal essays and teacher recommendations. Room and board are provided, along with a small stipend. **Application deadline is April 1, 1995;** however, applications will continue to be accepted after the deadline until all 50 positions are filled. Contact Georgette Healy, Department of Math and Statistics, Lederle Graduate Research Center, University of Massachusetts, Box 34515, Amherst, MA 01003-4515, (413) 545-1909.

Michigan

♦ **American Indian Summer Workshop in Biological and Computer Sciences** provides Michigan Indian students in grades 7-9 an opportunity to learn more about biological and computer sciences while encouraging them to begin preparing for postsecondary education. The workshop will be held June 11-17 at the Houghton campus of Michigan Technological University. There is no cost to participants from Michigan; tuition for out-of-state participants is $385. **Tentative application deadline is April.** Contact Youth Programs Coordinator, Educational Opportunity and Youth Programs, MTU, 1400 Townsend Dr., Houghton, MI 49931, (906) 487-2219.

♦ **Michigan Indian Youth Retreats** are open to Michigan Indian students who are entering grades 6-12. Dates and locations TBA. Contact Pam Martell, Native American Programs Unit, Michigan Department of Education, P.O. Box 30008, Lansing, MI 48909, (517) 373-6059.

♦ **Upward Bound Summer Program,** entitled "Mother Earth, Father Sky," will focus on environmental science, with additional course work in math, computer science and English. The program will be held June 18 - July 29 at Northern Michigan University and is open to low-income, secondary students from Illinois, Indiana, Michigan and Ohio who are potential first-generation college students. **Application deadline is May 15, 1995.** Contact Carl Wozniak, NMU, 1401 Presque Isle, Marquette, MI 49855, (906) 227-2115.

♦ **Michigan Summer Institutes for the Arts, Sciences and Technology** will be held at ten colleges throughout Michigan this summer. These institutes involve students in nontraditional learning experiences that focus on both in-depth study and broad interdisciplinary exploration. Applicants must be currently enrolled in grade 10 or 11 in a Michigan public or nonpublic high school or vocational-technical center and have not participated in a previous Summer Institute. The fee is $200; local and state scholarships are often available. **Application deadline is February 28, 1995.** Contact Summer Institute Office, Ingham Intermediate School District, 2630 W. Howell Rd., Mason, MI 48854, (517) 676-2550.

DATES	PROGRAM	LOCATION
June 8 - July 1	Environment and Technology in the 21st Century	Michigan Technological University
June 18 - July 24	Role of Technology in Development of Ideas/Concepts in Liberal Arts	Spring Arbor College
June 25 - July 8	Problem Solving in the Information Age	Eastern Michigan University
July 2 - July 15	Medical Science and the Arts in the 21st Century	Alma College
July 9 - July 15	Modern Computer Applications	Lake Superior State University
July 9 - July 15	Technology and the Environment: Freshwater Ecology of the Great Lakes	Northern Michigan University
July 9 - July 22	Changing Worlds/Changing Selves: The Arts and Sciences Guide Us from the Past Into the Future	Madonna University
July 9 - July 27	Sustaining the Environment through Education, Knowledge and Skills (SEEKS)	Adrian College
July 16 - July 29	The Art of Science and the Science of Art	Western Michigan University
July 30 - August 5	Criminal Justice, Law Enforcement and Investigative Technology	Delta College

Minnesota

♦ **University of Minnesota Itasca Field Biology Enrichment Program** is open to students who have completed their sophomore, junior, or senior year in high school. Participants in this life sciences program, which runs from June 14-29, will be involved in a wide range of "hands-on" experiences with plants and animals in a field setting at the Lake Itasca Forestry and Biological Station in northern Minnesota. Classes meet six hours per day with occasional evening and Saturday seminars. Subject areas presented include aquatic biology, animal behavior, prairie ecology, mammalogy, plant biology, ornithology and forest ecology. Applicants must have an interest in science, completed high school biology and a 3.0 or higher GPA. The cost is $565. **Application deadline is May 12, 1995.** Contact Bill Ganzlin, University of Minnesota, College of Biological Sciences, 223 Snyder Hall, 1475 Gortner Ave., St. Paul, MN 55108, (612) 624-9717.

1995 Summer Opportunities

New York

♦ **SUNY Oswego Young Scholars Program** is open to minority students who have just completed 7th grade, have potential in science or math and live within a 60-mile radius of Syracuse, New York. Tentatively scheduled for July 8 - August 11, the four-week institute will focus on math and physics. Instruction will consist of a mix of lectures, hands-on activities and field trips. Participants stay in dorms on the SUNY Oswego campus during the week, and return home on the weekends. **Tentative application deadline is March 15, 1995.** Contact Jack Narayan, Dept. of Mathematics, SUNY Oswego, Oswego, NY 13126, (315) 341-2888.

North Carolina

♦ **North Carolina Indian Youth Unity Conference** is tentatively scheduled for June 12-14 at Meredith College in Raleigh, North Carolina. The conference is open to high school students ages 14-18. Contact Kerry Bird, North Carolina Commission of Indian Affairs, 325 North Salisbury St., Raleigh, NC 27603-5940, (919) 733-5998.

North Dakota

♦ **Indians into Medicine (INMED) Summer Institute** is scheduled for June 19 - July 28, 1995. This six-week enrichment program is designed to help Indian students, grades 7-12, develop academic skills and establish the educational background to succeed in health science curricula. The Institute provides course work in chemistry, algebra, biology, health, communication and study skills. Participants stay in a dormitory on the University of North Dakota campus under the supervision of Indian tutor/counselors. Applications are available through the INMED offices; applicants must include their most recent transcript, three letters of recommendation and documentation of their Indian heritage. **Application deadline is March 31, 1995.** Contact Barb Anderson, Summer Institute Coordinator, INMED Program, UND School of Medicine, 501 N. Columbia Rd., Grand Forks, ND 58203, (701) 777-3279.

Oklahoma

♦ **1995 National UNITY Conference** will be held on June 15-19 in San Diego, California. The conference is open to youth, ages 15-24. Contact UNITY, P.O. Box 25042, Oklahoma City, OK 73125, (405) 424-3010.

♦ **Headlands Indian Health Careers Summer Academic Enrichment Program** is designed to increase the science and mathematics backgrounds and communication skills of American Indian high school graduates who are interested in health careers. The eight-week program runs from June 9 - August 4. Applicants must have two years of algebra, two years of science and a 2.5 GPA or better. **Application deadline is March 15, 1995.** Contact Tom Hardy, Headlands Program, College of Medicine, BSEB-200, P.O. Box 26901, Oklahoma City, OK 73190, (405) 271-2250.

Rhode Island

♦ **University of Rhode Island Native American Summer Science Camp** focuses on electrical, ocean, civil and mechanical engineering. Open to 7th, 8th and 9th grade American Indian students interested in science, the program features design projects, chosen partly on the basis of cultural relevance, and weekly career-oriented field trips. The program is tentatively scheduled for July. Since this is a commuter day program, accommodations are not provided; bus service will be available from the Narragansett Long House in Charlestown and the Rhode Island Indian Council in Providence. **Tentative application deadline is April.** Contact William Ohley, Department of Electrical Engineering, University of Rhode Island, Kingston, RI 02881, (401) 792-2505.

☼ Resources for Summer Opportunities ☼

Directory of Student Science Training Programs for Precollege Students. Send $3 to Science Service, Inc., 1719 N Street, N.W., Washington, DC 20036, (202) 785-2255.

Educational Opportunity Guide: A Directory of Programs for the Gifted. Send $15 to Duke University Talent Identification Program, 1121 West Main Street, Suite 100, Durham, NC 27701, (919) 683-1400.

1995 Michigan Summer Opportunities Guide. Available mid-April. Contact Mary Bailey-Hengesh, Michigan Department of Education, P.O. Box 30008, Lansing, MI 48909, (517) 373-2251.

Summer Programs for Gifted and Talented Students. Computerized database of more than 500 programs in the United States. Send $50 for the complete database on diskette (specify Filemaker Pro or ASCII format) to Sandra Berger, Council for Exceptional Children, 1920 Association Drive, Reston, VA 22091, (703) 264-9471. The Council for Exceptional Children will also undertake individual database searches of up to ten programs for a basic search charge of $10, with an additional $1 charge for each program over ten.

ORBIS Center One provides free training and technical assistance to Indian Education Act grantees. Current and potential Discretionary and Formula grantees are invited to call us at 1-800-621-2998 for assistance in project design, management and evaluation; instructional and counseling techniques; cultural curriculum development and use; and Parent Committee effectiveness.

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CENTER ONE
ORBIS Associates
Suite 700, 1411 K Street, N.W.
Washington, DC 20005

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Terry Eidell, Executive Director
Appalachia Educational Lab Inc
1031 Quarrier Street
P.O. Box 1348
Charleston, WV 25325